

# **REQUEST FOR ENGINEERING SERVICES**

**JULY 2014**

**AGENCY:** Department of Health Services

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**LOCATION:** Sand Ridge Secure Treatment Center, City of Mauston, Juneau County

## **PROJECT REQUEST:**

Request release of \$55,000 Building Trust Funds – Planning to prepare preliminary plans and a design report for the Air Tempering in patient areas.

**PROJECT NUMBER:** 14F2B

## **PROJECT DESCRIPTION:**

This project will provide air tempering for patient living units, support space and common assembly areas to reduce humidity and heat during hot weather in Building “A”, “B”, & “F” and the Gymnasium in Building “C”.

This will include:

- The design of rooftop DX condensing units and necessary structural support on individual buildings and the addition of cooling coils in existing air handling units.
- Evaluation of the existing electrical power supply and design of a new or modified system as needed.
- All new equipment being controlled by a Direct Digital Control (DDC) control system. Integration of the new DDC system with existing DDC system.
- The conversion of each modified Air Handling system from constant volume to a VAV type system, with a VAV box installed at each existing reheat coil, installation of variable frequency drives, and updated temperature controls.

## **JUSTIFICATION:**

The original buildings at SRSTC were constructed in 2000. Patient living units as well as patient common areas have no air conditioning and air tempering. The majority of the patients are on psychotropic medications to treat their mental illness. Since psychotropic medications can limit the patient’s ability to maintain proper body temperature, these individuals can suffer serious medical consequences when located in areas where the temperature and humidity levels are not maintained below the danger levels. These danger levels are often exceeded at SRSTC in un-tempered areas.

**BUDGET AND SCHEDULE:**

Construction	\$
Design	
DFD Mgt	
Contingency	
Equipment	
Other Fees	
<b>TOTAL</b>	<b>\$1,700,000</b>

A/E Selection	Jul 2014
SBC Approval	May 2015
Bid Opening	Feb 2016
Start Construction	Jun 2016
Substantial Completion	Oct 2016
Final Completion	Jun 2017

**PREVIOUS ACTION:**

None